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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,080	08/28/2003	Hajime Kimura	12732-162001/ US6582	7214
26171	7590	06/05/2006	EXAMINER	
FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			NGUYEN, KIMNHUNG T	
			ART UNIT	PAPER NUMBER
			2629	

DATE MAILED: 06/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/650,080

Applicant(s)

KIMURA ET AL.

Examiner

Kimnhung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Amendment filed on 3/15/06.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3-8, 11-14 and 16-33 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 13 and 14 is/are allowed.
6) ☒ Claim(s) 3-8, 11, 12 and 16-29 is/are rejected.
7) ☒ Claim(s) 30-33 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

This Application has been examined. The claims 3-8, 11-14 and 16-33 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 3, 5-6, 8, 11-12, 19, 22, 24, 26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Stewart et al. (US 5,952,789).

Regarding claims 3, 6, Stewart et al. discloses in fig. 5, a current source circuit comprising: a first transistor and a second transistor (T1, T2); and a third transistor (T3, fig. 7), a capacitor element (C1) connected to the gate electrodes (S1) of the first transistor (T1) and the second transistor (T2); a power source line (see switching power line) connected to one end of the capacitor element (C1); a current source line (fig. 5) connected to the other end of the capacitor element (C1); and means for supplying electric charges held in the capacitor element (C1) as current to an object to be driven.

Regarding claims 22 and 26, Stewart et al. discloses in fig. 5 and 7, a current source circuit comprising: a first transistor (T1), a second transistor (T2), and a third transistor (T3, fig. 7) a power source line (see switching power line) connected to one end of the capacitor element (C1); a current source line (fig. 5) connected to the other end of the capacitor element (C1),

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wherein the capacitor element is connected to the power source line, while the first and second transistors are connected in series when a current is supplied to an element to be driven

Regarding claims 5, 8, 21, 24 and 28, Stewart et al. discloses the first and second transistors are an inherent of organic transistors (because they drive the circuit).

Regarding claim 11, Stewart et al. discloses in fig. 5, a method for driving a current source circuit having a first transistor (T1), a second transistor (T2), a capacitor element (C1, C2) connected to the gate electrodes of the first transistor and the second transistor and a current source line (fig. 5) and power source line (see switching power line) connected to the capacitor element (C1, C2), the method comprising the steps of: feeding current supplied from the power source line to the power source line through the first transistor and second transistor, which are connected in parallel; and feeding current from the power source line to an object to be driven through the first transistor and second transistor, which are connected in series.

Regarding claim 12, Stewart et al. discloses in fig. 5, a method for driving a current source circuit having a first transistor (T1), a second transistor (T2), a capacitor element (C1, C2) connected to the gate electrodes of the first transistor and the second transistor and a current source line (fig. 5) and power source line (see switching power line) connected to the capacitor element, the method comprising the steps of: connecting the first transistor and second transistor in parallel when a setting operation is performed on the first transistor and second transistor; and

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connecting the first transistor and second transistor in series when current is supplied from the first transistor and second transistor to an object to be driven.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4,7, 20, 23, 25, 27 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. (US 5,952,789) in view of Yamagishi et al. (US 6,501,466 cited by Applicant).

Stewart et al. does not disclose the first, the second and the third transistors are P-channel. Yamagishi et al. discloses in fig. 1, a current source system having the first, the second and the third transistors are P-channel type (see col. 11, lines 19-29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of the first, the second and the third transistors are P-channel as taught by Yamagishi et al. into the system of Stewart et al. because this would be selectively injected into the channel in order to shift the threshold voltage toward the enhancement side, which also less expensive to fabricate (see col. 11, lines 23-27).

Allowable Subject Matter

5. Claims 13-14 are allowed.

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6. Claims 30-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: None of the cited art teaches the method for driving a current source circuit comprising the steps of: supplying current based on the predetermined amount of voltage to the first transistor and second transistor, which are connected in parallel, such that the transistors can feed a predetermined amount of current; and supplying the predetermined amount of current to an object to be driven through the first transistor and second transistor, which are connected in series as claims 13-14; or dividing a unit frame period corresponding to an synchronizing timing of video signals input to the signal line into m sub frame periods, SF1, SF2... and SFm (where m is a natural number of two or larger) and providing at least one of the sub-frame period SF1, SF2... and SFm with an erasing time; and performing a setting operation n the current source circuit in the erasing time as claims 30-35.

Response To Arguments

8. Applicant's arguments filed on 3/15/06 have been fully considered but they are not persuasive.

Application states that Stewart does not teach a first transistor, a second transistor, and a capacitor element connected to the gate electrodes of the first transistor and the second transistor.

Examiner respective disagrees because Stewart discloses a first transistor, a second transistor, and a capacitor element connected to the gate electrodes of the first transistor and the

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second transistor (see fig. 5) and discussed above. For these reasons the rejections are maintained.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen
May 27, 2006



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